

BOS Revitalization Committee

Embark Richmond Highway Project Overview and Status

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October 10, 2017

Route 1 Multimodal Alternatives Analysis

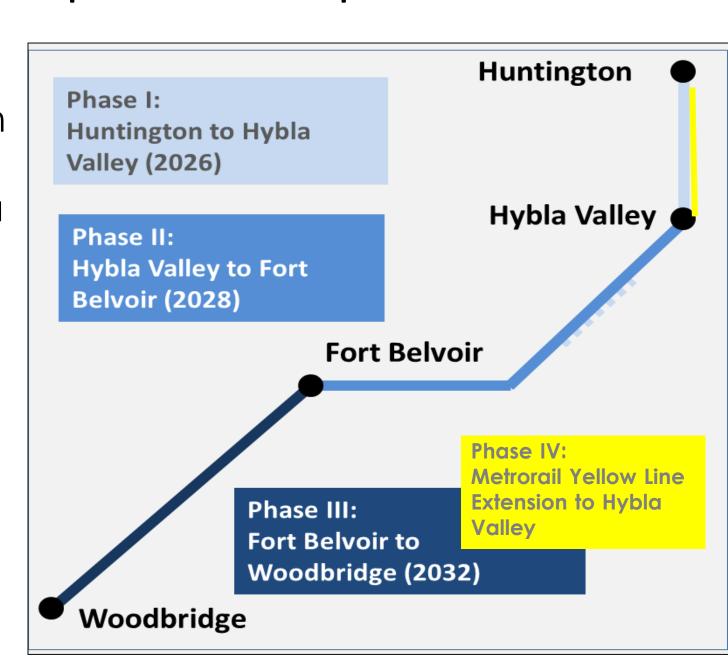
- Conducted by Virginia Department of Rail and Public Transportation (VDRPT)
- 15 mile section of Route 1 from I-495 through Fairfax County, to Route 123 at Woodbridge in Prince William County
- Recommended a program of multimodal transportation improvements for adoption by Fairfax County and Prince William Co.
- Defined transit, roadway, and bicycle/pedestrian projects that could be implemented
- BOS endorsed Alt. 4 BRT/Metrorail hybrid in May 2015



Scope & Phasing of Transportation Improvements

- Four Phases
- Median-running Bus Rapid
 Transit (BRT) from Huntington
 to Woodbridge
- Metrorail extension to Hybla Valley
- Roadway Widening
- Bicycle and Pedestrian Facilities





What is Bus Rapid Transit (BRT)?

- BRT is a high quality bus-based system that delivers fast, comfortable, frequent and cost-effective services at Metro-level frequencies.
- Utilizes advanced technologies to improve customer convenience and reduce delays.
- Key elements of BRT:
 - Running Ways dedicated lanes vs. mixed traffic
 - BRT Specialized Vehicles
 - Stations
 - Service and Operations
 - Advanced Technology
 - Branding
 - Integration with local buses

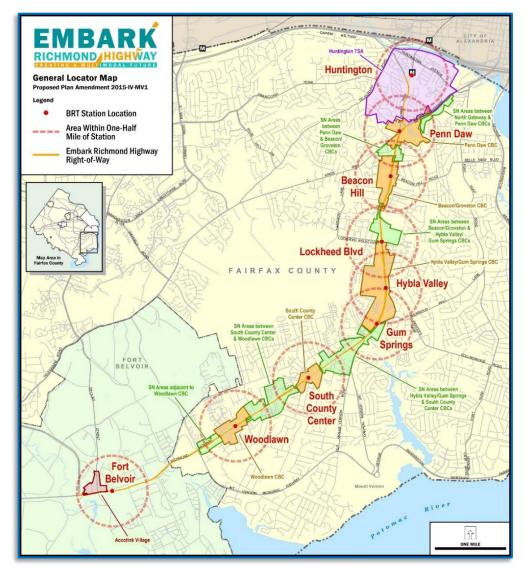






Embark Project Scope and Study Area

- Embark Richmond Highway is a multi-faceted project comprised of a Comprehensive Plan amendment to support BRT and future Metrorail, a BRT System, a road widening project, and urban design guidelines
- Managed thru multi-departmental and inter-governmental coordination
- Plan development guided by an appointed 13 member Advisory Group
- Extensive outreach and communication conducted throughout process



Development of Conceptual Plans



- Focus on Four CBCs Penn Daw, Beacon/Groveton, Hybla Valley/Gum Springs, and Woodlawn
- New grid of streets proposed to create more walkable blocks, support greater density, and provide more options for local trips
- Massing studies used to visualize the mix of uses, building heights, and densities
- Concepts developed and refined by consultant through an urban design framework

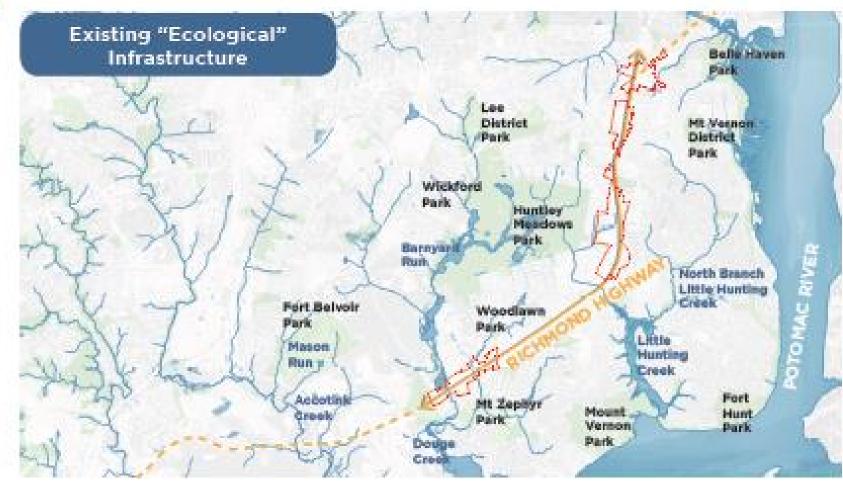
Proposed Richmond Highway Urban Design Framework: ECOLOGY

The Embark corridor bisects a vibrant ecological area where there are deeply embedded stream systems and natural areas.

FINDING AN URBAN DESIGN RATIONALE



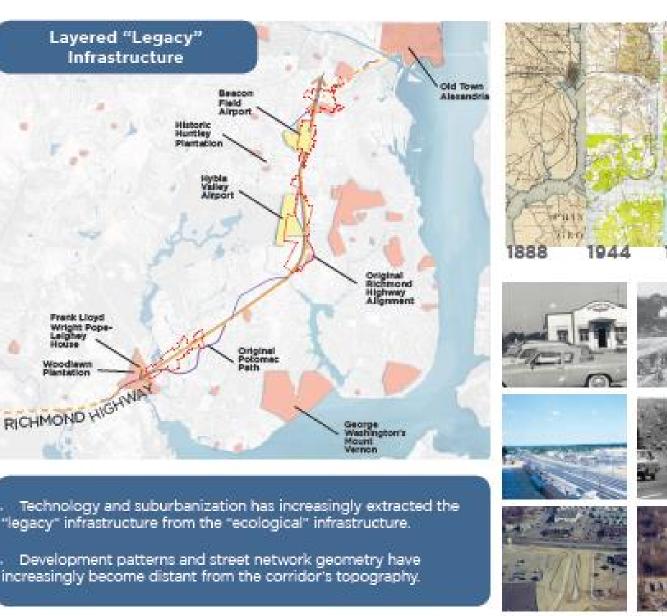
ECOLOGY



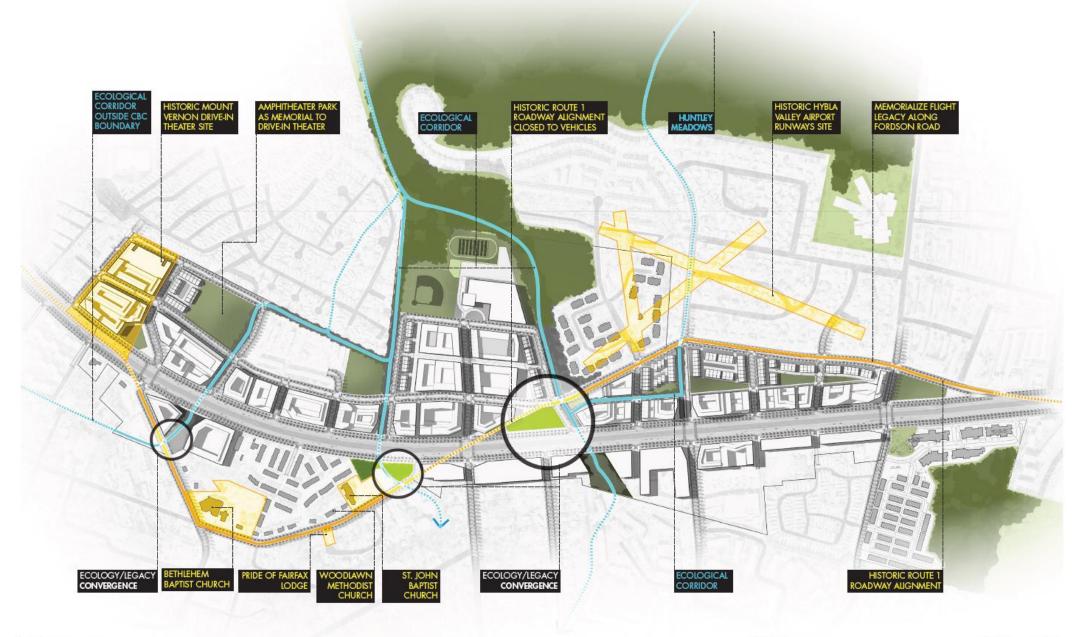
Proposed Richmond Highway Corridor Urban Design Framework LEGACY

Remnants of previous infrastructure such as the former alignment of Route 1, parcel geometries and development patterns, as well as historic sites and buildings, have left a corridor-wide legacy to celebrate and reflect in future development.





HYBLA VALLEY - GUM SPRINGS CBC LEGACY + ECOLOGY CONVERGENCE



5 TO REQUEST THIS INFORMATION IN AN ALTERNATE FORMAT, CALL THE PLANNING DIVISION, 703-324-1380 TTY 711 (VIRGINIA RELAY)

HYBLA VALLEY - GUM SPRINGS CBC GREEN SPACE CONNECTION



Hybla Valley/Gum Springs Concept Plan



HYBLA VALLEY - GUM SPRINGS CBC INSPIRATION





















Richmond Highway Widening Mount Vernon Memorial Highway to Napper Road

Route 1 Widening (\$ in Millions)	Need	Available Funding	Request	
Project Estimate	215.0			Current project estimate
RSTP		27.1		Allocated by NVTA
Revenue Sharing		15.9		Sourced from State Revenue Sharing funds
Regional NVTA		1.0		Sourced from Regional NVTA funds -Requested \$90M through CTB Smart Scale
Funding Gap			171.0	program (FY18–23). Not awarded
Total	215.0	44.0	171.0	

Possible ways to address \$171M funding gap:

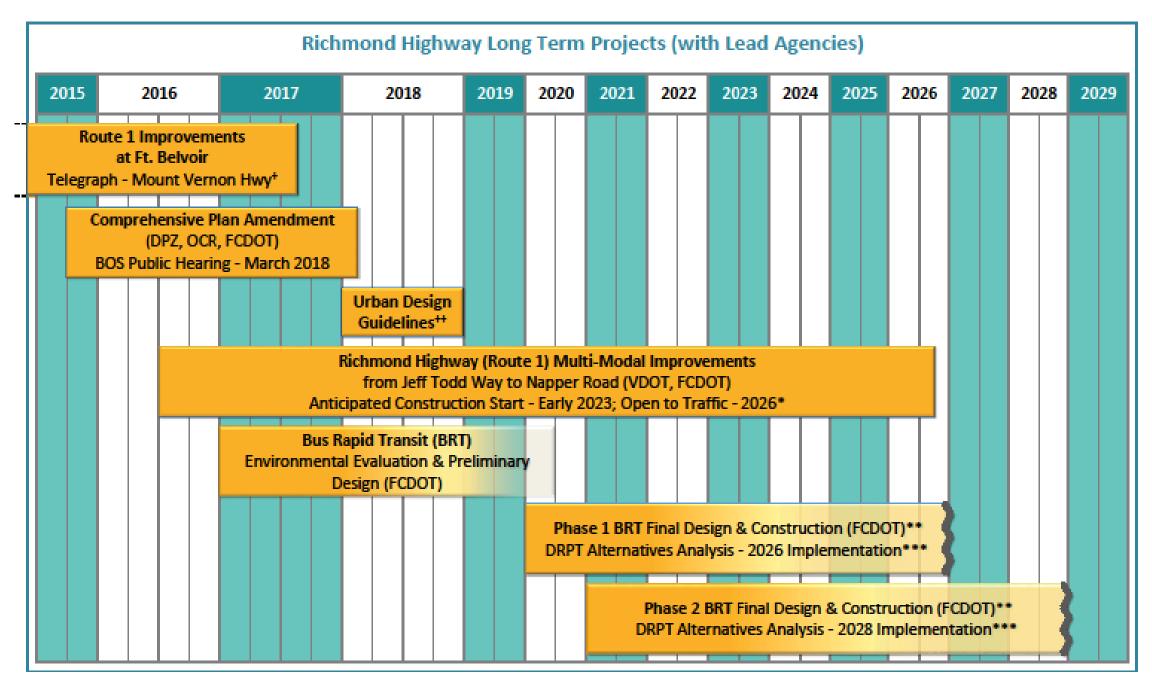
• NVTA regional, additional federal RSTP funds or state Revenue Sharing, local revenues, and developer contributions

Richmond Highway Bus Rapid Transit Huntington Metro to Hybla Valley

Richmond Highway BRT (\$ in Millions)	Need	Available Funding	Request	
Phase 1 Estimate ¹	324.6			Estimate per VA DRPT multi-modal analysis
RSTP & CMAQ2		26.4		Allocated by NVTA
VDRPT Grant ³		4.0		Approx. amount from VA DRPT FY 2016 Grant
Local Revenue		6.0		Approved by BOS September 20, 2016 -Requested \$100M through CTB Smart Scale
Funding Gap			288.5	program (FY18–23). Not awarded
Total	324.6	36.1	288.5	

Possible ways to address \$288M gap:

- NVTA regional, additional CMAQ/RSTP, Smart Scale, New Starts (~40–50%), local/developer contributions.
- 1) Planning level estimate based from VDRPT MM AA Study, subject to change as project moves into preliminary design
- 2) Regional Surface Transportation Program/Congestion Mitigation Air Quality
- 3) Virginia Department of Rail and Public Transportation



⁺ Note: Project by the Federal Highway Administration (FHWA) and Eastern Federal Lands Highway Division (EFLHD). Both are the lead agencies, coordinating with Fairfax County, the U.S. Army Garrison Fort



Questions?